Parker Duofold

SERVICE MANUAL

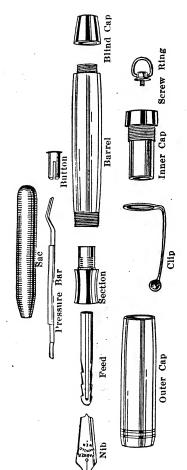
Parker Duofold

SERVICE MANUAL

A COMPLETE COURSE
IN SERVICING
PARKER DUOFOLD
FOUNTAIN PENS



THE PARKER PEN COMPANY JANESVILLE, WIS., U.S.A.



THE COMPONENT PARTS OF A PARKER DUOFOLD FOUNTAIN PEN AND THE MATERIALS THEY ARE MADE OF

Sac Soft Rubber
Pressure Bar Metal; Spring Bar: Phosphor bronze,
Small Plate: Nickel Alloy

Button Brass, gold plated

Gold nib 14 Karat gold, tip of Iridium

Feed Hard Rubber Section Hard Rubber Barrel Permanite (a very highly refined

pyroxylin product)

Blind Cap Hard Rubber

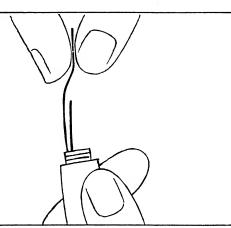
Outer Cap Permanite and 2 rolled gold bands

Clip or Screw Ring Rolled Gold

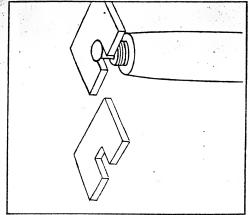
Inner Cap Hard Rubber



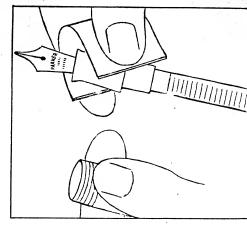
Remove the blind cap and pull out the button by using a metal plate in which a small indention has been cut or filed.



Straight shaped pens have a screw-section; streamlined pens are fitted with a slip-section. Before removing section from barrel, tap the barrel at the threads with a blunt tool or hit the barrel against the edge of a table; this will loosen the shellac which was used in fitting the section. Then with a piece of rubber (cut from a wide rubberband) grip the section tightly. If it is a screw section, unscrew it; if it is a slip section, pull it out with a rocking motion.



Now remove pressure bar, pulling it out carefully.



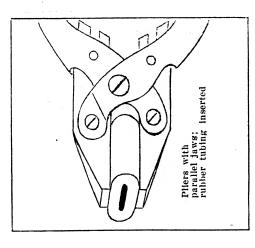
This operation varies according to the tion. Feed B has no curve and can be pulled out from front. The latter can be type of feed used in the fountain pen. Feed A has a curve at the bottom and recognized by a small notch on the under cannot be pulled out from front of secside of the feed.

Notch →

move it back and forth until it becomes If pen has feed A, grasp the gold nib firmly between thumb and finger and oose in section and can be pulled out.

Feed B

Feed A



Be sure to use rubber tubing with pliers

or you will spoil the gold nib.

pliers and extract nib and feed.

If pen has feed B, use a pair of pliers with a piece of rubber tubing in its mouth. Insert nib and feed into rubber tubing as far as possible, close jaws of

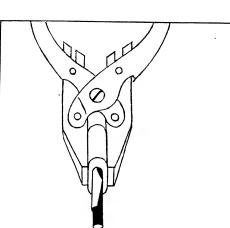
pliers which open in V-shape, because Only pliers, the jaws of which are parallel when open, can be used for this operation. Do not attempt to do this with you will ruin feed and gold nib.

above, pass section over a small flame a few times. This softens the section and makes removal of nib easier. After a section has been heated it must be rolled between fingers until it cools, so If a gold nib is fitted too tightly, so that it cannot be extracted as directed that it will not lose its shape.

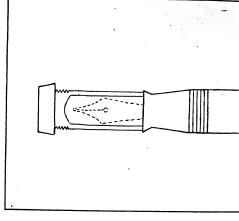
Do not use pliers with V-shape jaws



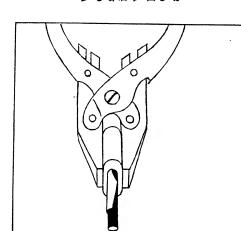
With feed A: Insert the gold nib into the rear of the section; push both in as the front of the section and the feed into far as you can with your fingers. Then, hold the nib firmly between fingers, place curve of feed against edge of table and press with force until nib and feed reach correct position.



With feed B: The feed with a notch on underside is fitted from front of section. Place gold nib over feed in correct position and grasp both with pliers fitted with rubber tubing; of pen until lettering on the gold nib is push both nib and feed into section about one-quarter inch from section.



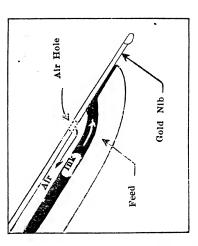
it will be ruined when the cap is screwed on.



If the nib touches the upper wall of the inner cap, it must be fitted deeper, or After nib is fitted it must be tested with the inner cap to see if it is inserted deep enough (see illustration).

SERVICE MANUAL

The channel of the feed has two indentations, one on each side, through which ink is attracted to the writing point by capillary action.



The smooth flow will take place only when the gold nib fits closely against feed, as in A. Ink is under control because it is confined to ink channel.

When a space is left between nib and feed, ink will fill the space and destroy sult that the volume of ink and its rate the action of the channel, with the reof flow is left out of control. See B.

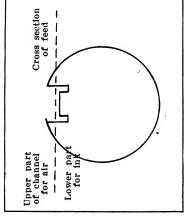
TO ADJUST THE FEED

Make sure the feed is adjusted rectly.

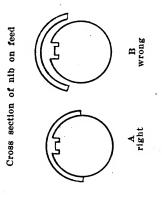
When feed is fitted too low, ink does not reach the nib evenly and pen will

When feed is adjusted too high, ink will flow too freely and blot. not write properly.

the rubber.

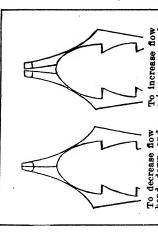


to point of nib. Air in turn enters When writing, ink travels down the indentations and lower part of channel through the airhole in gold nib and travels upward in upper part of channel, replacing amount of ink used, thus insuring a constant, even flow of ink.



Alcohol Lamp gold nib. To insure this, heat over a small flame rolling the pen back the forepart of the feed by passing it and forth between the fingers. Heat very in one spot too long, as this may burn slowly to soften the feed. Do not hold The feed must lie flat and tight against

Rest back of gold nib on edge of table, dip forefinger in cold water and rub it firmly back and forth on the nib Then dip the pen into cold water. The feed should now fit snugly prevent to cool the feed and against the gold nib. warping.



jo

between the prongs

space

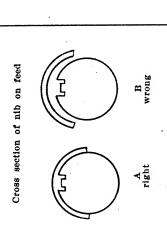
The

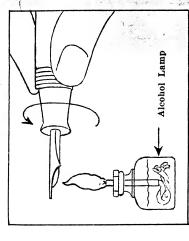
raise up and space prongs of nib bend down and close prongs of nib

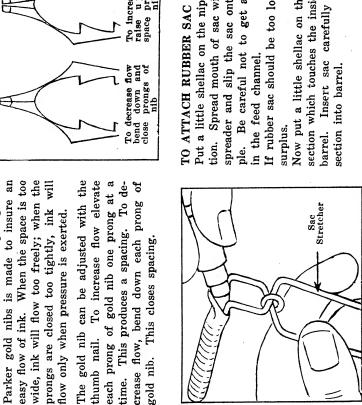
Put a little shellac on the nipple of section. Spread mouth of sac with the sac spreader and slip the sac onto the hipple. Be careful not to get any shellac in the feed channel.

If rubber sac should be too long, cut off

Now put a little shellac on that part of section which touches the inside wall of Insert sac carefully and push section into barrel.







The first two bars have been discontinued. All Parker pens at present are fitted with the double bar for slip section.

Care must be taken that the front end of this bar rests in the collar inside the barrel. The small plate of the pressure bar must face the sac. See illustration.

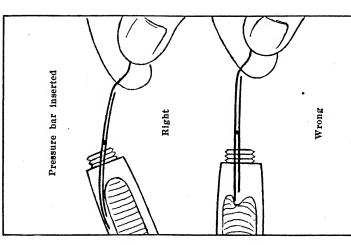
When inserting pressure bar, bend front end upwards toward the wall of the barrel, so that when you push the bar in, the ink sac will not be telescoped. See illustration.

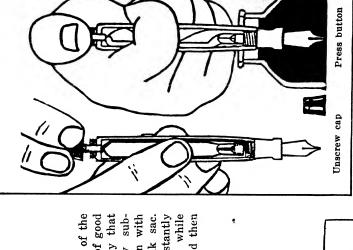
TO INSERT PRESSURE BAR

The pen to be repaired may have one of the following pressure bars: A. Double bar for screw section. This is the bar used in the straight shape pens; it rests against section.

B. Triple bar consisting of 3 pieces. Only a few pens with the triple bar have been shipped.

C. Double bar for slip section. This is the bar used in the streamlined pens. Inside the barrel is a metal ring or "collar" against which this bar rests. See illustration.





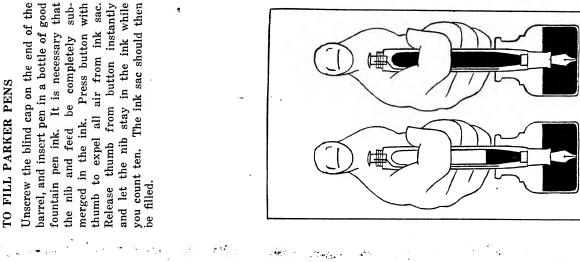
Be sure to explain to the buyer of a Parker Pen that he must give it time to fill. Some people press the filler-button and withdraw the pen almost immediately after releasing pressure on the button and expect the sac to be filled.

To fill the sac completely, the point should remain immersed in ink at least ten seconds. After ten seconds have elapsed withdraw the pen from the ink bottle and with a cloth wipe the gold nib clean. Screw blind cap on the pen; it is now ready for writing.

Although all pens are apparently identical some may require more time to fill than others because of minute variations in the dimensions of feed channel or the degree of elasticity of the rubber sac. Thus some pens may need as much as 15 seconds time to fill completely.

Count ten

Release thumb



LEAKING

should be treated as such.

The fountain pen is, a delicate instru-

ment and should be stood ink

has

that

or from Never fil

PROPER CARE OF PARKER FOUNTAIN PENS

open for some time which contains sedi-

ment, for the dirt particles will clog the

which

that even with use of the best ink some small particles of sediment will enter the

In the course of time it is quite natural

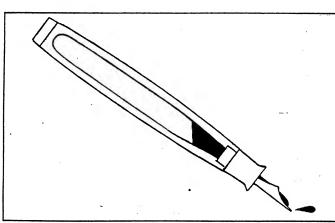
fine ink channel in the feed.

ink sac and in time obstruct the flow of ink through the channel.

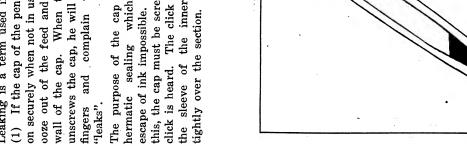
wall of the cap. When the user later unscrews the cap, he will get ink on his fingers and complain that his pen (1) If the cap of the pen is not screwed on securely when not in use, the ink may ooze out of the feed and soil the inner Leaking is a term used in two ways:

The purpose of the cap is to effect a hermatic sealing which makes the escape of ink impossible. To accomplish this, the cap must be screwed on until a click is heard. The click is produced by the sleeve of the inner cap closing





plained. When only one-eighth of the seven-eighths is filled with air. Air has drops of ink may fall from the pen while sac is filled with ink, the remaining pen and the air inside the sac; the air Nine-tenths of the complaints about (2) If the sac becomes almost empty, in use. Such a condition is easily ex-The warmth of the fingers heats the expands and forces out too much ink. The "leaking" can be traced to this situation. The remedy is simple—refill the pen a higher expansion co-efficient than ink. result of this process is a "leaky" pen.



Never flush with hot water because it

nk crusts.

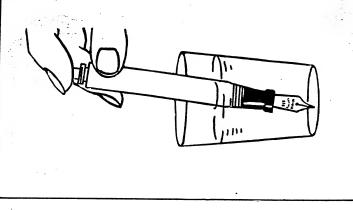
ruins the sac and expands the feed.

the pen with water and let it stand nt down in a tumbler of water over

point

ight. This dissolves and removes all

wash away all sediment in the channel. To insure thorough cleansing of the pen,



It is, therefore, necessary to clean the fountain pen from time to time in order to keep it in good condition. This cleaning process is very simple. Fill a

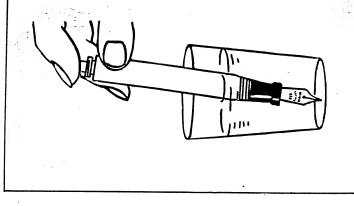
ing process is very simple. Fill a tumbler with cold water, insert the pen just as for filling, fill the sac with water and expel it again. Repeat this flushing operation four or five times to

PARKER CLIP

qual-In time, the clip on any fountain pen will Here the Parker Duofold has another advantage. When the clip has lost its grip, it is an easy matter to When fitted again to the give it new life. Simply remove the clip and bend it to an acute angle. See ilcap, it will be as strong as when the or spring its strength en was new. lustration. lose

TO REMOVE STAINS ON BARREL

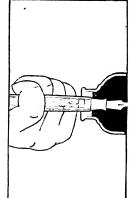
some good tooth paste on it. Rub the Moisten a piece of tissue paper and put soiled part and see how easily the stain is removed



12

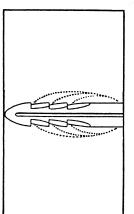
NONBREAKABLE

pens have been dropped from airplanes Parker pens are made of permanite which is practically unbreakable. Parker three thousand feet aloft and have landed on cement sidewalks without damage.



NO CUT IN BARREL

There are no slits disfiguring the pen escape even if the sac should break. "No hole in the wall-no ink on hands or clothes." No side lever to catch on in the side of the barrel. Ink cannot the clothes when removing from pocket.



GREATER INK CAPACITY

other pens, size for size. This gives you 6000 words non-stop writing, with one Parker Duofold's oversize ink capacity is 17.4% greater than the average of

FEATURES OF THE PARKER

38 YEARS OF PARKER PENS

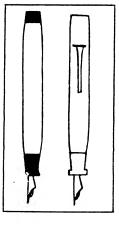
The Parker Pen Company was founded in 1892. Back of each Parker product is over thirty-eight years of personal experience in the manufacture of fountain pens by Mr. Geo. S. Parker, President of The Parker Pen Company.

Parker Duofold pens are in the hands of twenty-six million satisfied users.



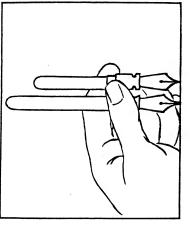
BUTTON FILLER

allows point to reach the bottom of deep top of Parker filler button at ink bottles easily.



PARKER FEED

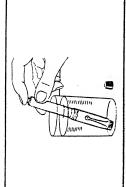
Parker's slanted, notched feed prevents "sweating." Feed drains ink back into barrel quickly.



LEAKPROOF

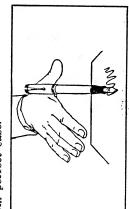
SERVICE MANUAL

pen hermetically and prevents any loss of ink, even if the pen is carried upside down. When the cap is screwed on the pen, the inner sleeve fits over the gold nib and makes a contact with the sec-Parker's duo-sleeve safety cap seals the tion, allowing no ink to escape, provided of course that the cap is screwed on very tightly.



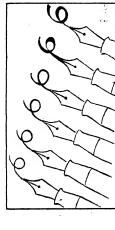
28% LIGHTER THAN RUBBER

Permanite has another advantage in being 28 per cent lighter than hard rubber, which was formerly used in the The pen, When writing it glides over the paper therefore, feels featherlight in the hand. manufacture of fountain pens. with perfect ease.



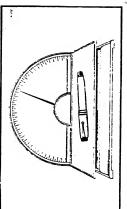
DUOFOLD POINTS

developed a unique plan to insure the perfection of each Parker Duofold nib. Parker's Heavy Gold nibs are tipped with Tasmanian iridium and are hand ground to a velvet smooth finish. Parker after all his gold nibs have passed 11 inspections. If a gold nib fails to pass forfeits any of the 11 inspections, it is rejected Parker pays a bonus to each pen grinder, only his bonus but pays a penalty. the pengrinder not



Sealed

shown in the illustration. Press the filler button. Not a single air bubble a Parker pen, screw cap on tight, sub-merge in a tumbler filled with water as will appear, proving that the Parker Pen is leakproof. hermetic sealing in this manner: empty leakproof the demonstrate shown



PRESSURELESS TOUCH

sureless touch. The physical phenomena of capillary attraction and gravity have been made use of in the construction of the Parker Pen and account for the fact that a tiny globule of ink is fed to the point of the nib and actually touches the One of the greatest achievements in the fountain pen industry is Parker pressureless touch. The physical phenomena famons exertion instant before the The pen can be drawn over Parker's thus accomplishing Parker's pressureless touch in writing. the slightest just an without paper oaper does.



A POINT FOR EVERY HAND

Either rigid or flexible points in various Parker makes many different styles of points-to suit the taste and characteristics of any individual handwriting. gradations of fineness are obtainable. SERVICE MANUAL

Barrel

Point

Knock-out Pin

Clutch

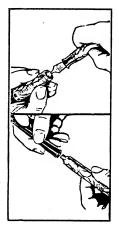
2 PENS IN 1

owns half of a Desk Set. In fact, everyone who buys a Parker Pen automatically buys half a desk set. To own a complete desk set, he need buy only a base; it is unnecessary to purchase a Parker Duofold pen Every owner of a special desk pen.



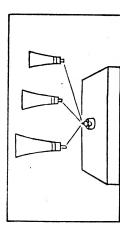
CONVERTIBILITY

All Parker Pens are convertible into pocket or desk pens.



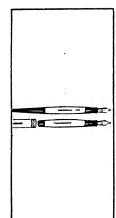
TAPER INCLUDED

The taper to convert pocket pen into desk pen is included with every Parker base.



SYMMETRICAL DESIGN

because the clip is fastened on top—not metry—and pencils to match. Parker pens and pencils fit deeply in pocket, New streamline shape in beautiful symhalf-way down as on other makes.



parts of the streamlined Parker pencil.

sert the lead at the tip.

PARKER DUOFOLD PENCIL

DOUBLE DESK SETS

Parker double desk sets can be supplied either with two pens or with one pen and one pencil.



POCKET PEN-DESK PEN

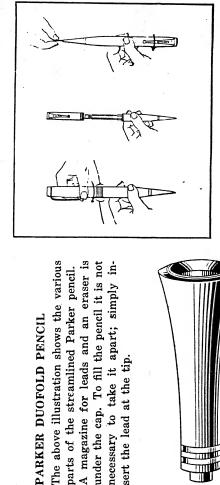
Swivel Screw

Convertible in 10 seconds. To change pocket pen to desk pen simply substitute taper for cap.



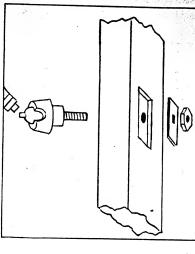
NTERCHANGEABLE

pens interchangeable; so any Parker base can be supplied with any Parker pen. The sockets in Parker desk sets are Parker sockets are obtainable for and pencils.



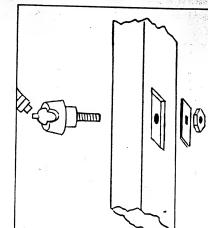
PARKER DESK SET SOCKET

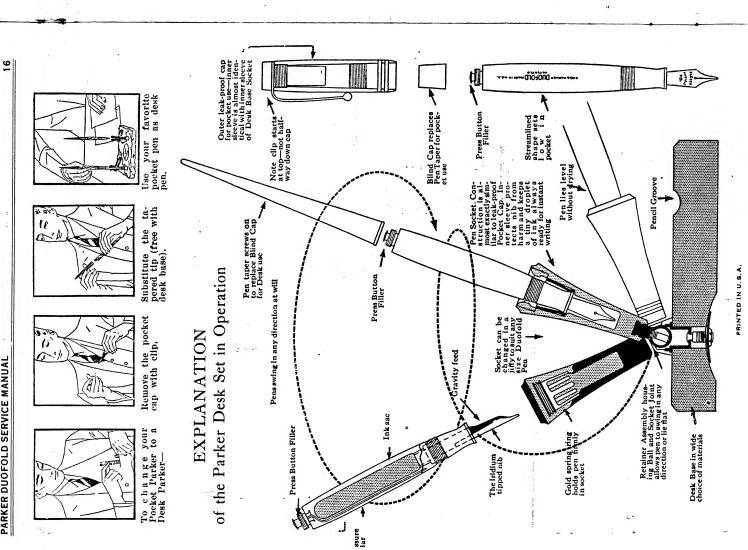
can be supplied in three sizes: Senior, The complete Parker socket consists of Retainer and Bowl (Humidor); the Bowl Junior, and Lady-for either pen or pencil. All bowls are interchangeable.



TO ATTACH RETAINER TO BASE

through hole in base; slip cross bar into the hole on the underside of base over Put lower end with swivel screw the swivel screw and screw tight with nut.





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